

## CLAIMS

1. A data processor comprising:

a receiving section that receives a data stream  
5 including data representing first primary video to be presented by switching a plurality of pictures one after another at a first vertical scanning frequency and data representing first auxiliary video to be presented synchronously with the first primary video; and  
10 a converting section for converting the data representing the first primary video and the first auxiliary video into data representing synthetic video to be presented by switching the pictures at a second vertical scanning frequency, which is different from the first vertical  
15 scanning frequency,

wherein the data stream includes timing information defining respective times to present the first primary video and the first auxiliary video, and

wherein the converting section associates second  
20 auxiliary video, having the same contents as the first

auxiliary video on a picture of the first primary video, with  
a picture of second primary video, having the same contents as  
the counterpart of the first primary video, thereby generating  
synthetic video composed of the second primary video and the  
5 second auxiliary video.

2. The data processor of claim 1, wherein the converting  
section includes:

a video converting section for converting the data  
10 representing the first primary video into data representing  
the second primary video by changing the vertical scanning  
frequencies;

a subtitle converting section for converting the data  
representing the first auxiliary video into data representing  
15 the second auxiliary video, identifying a picture of the  
first primary video to be presented synchronously with letters  
of the first auxiliary video, and associating letters of the  
second auxiliary video, corresponding to the letters of the  
first auxiliary video, with a picture of the second primary  
20 video corresponding to the identified picture of the first

primary video; and

a synthesizing section for generating data representing  
the synthetic video by synthesizing together the second  
primary video data and the second auxiliary video data that  
5 have been associated with each other.

3. The data processor of claim 1, wherein the converting  
section includes:

a synthesizing section for generating superposed video,  
10 in which the first primary video and the first auxiliary video  
are synchronized with each other in accordance with the timing  
information and superposed one upon the other; and  
a video converting section for converting data  
representing the superposed video into data representing the  
15 synthetic video.

4. The data processor of claim 1, wherein the converting  
section converts the data representing the first primary  
video and the first auxiliary video and having a  
20 predetermined resolution into data representing the synthetic

video that has a resolution different from the predetermined resolution.

5. The data processor of claim 4, wherein the converting section converts the first primary video data and the first auxiliary video data of a film material into NTSC- or PAL-compliant synthetic video data.

6. The data processor of claim 5, wherein the converting section converts one frame of the first primary video and the first auxiliary video of the film material into at least two fields of the PAL-compliant synthetic video with the same field inserted at regular intervals a number of times during the conversion into the fields.

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7. The data processor of claim 1, wherein the data stream includes conversion permissibility information indicating whether or not the converting section may do conversion, and

20 wherein the converting section does the conversion when

the conversion permissibility information permits the  
converting section to do so.

8. The data processor of claim 1, wherein the data  
5 stream includes conversion designating information designating  
the type of conversion to do, and

wherein the converting section does the type of  
conversion that has been designated by the conversion  
designating information.

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9. The data processor of claim 1, further comprising an  
input section, to which conversion designating information,  
designating the type of conversion to do, is input,

wherein the converting section does the type of  
15 conversion that has been designated by the conversion  
designating information.

10. The data processor of claim 9, wherein the  
converting section generates PAL-compliant synthetic video by  
20 performing either a conversion or presenting each picture a

single time or a conversion of presenting a particular picture  
a number of times in accordance with the conversion  
designating information.

- 5        11. A data processing method comprising the steps of:
  - receiving a data stream including data representing first primary video to be presented by switching a plurality of pictures one after another at a first vertical scanning frequency and data representing first auxiliary video to be
  - 10      presented synchronously with the first primary video; and
    - converting the data representing the first primary video and the first auxiliary video into data representing synthetic video to be presented by switching the pictures at a second vertical scanning frequency, which is different from
    - 15      the first vertical scanning frequency,
      - wherein the data stream includes timing information defining respective times to present the first primary video and the first auxiliary video, and
        - wherein the converting step includes the step of
        - 20      associating second auxiliary video, having the same contents

as the first auxiliary video on a picture of the first primary video, with a picture of second primary video, having the same contents as the counterpart of the first primary video, thereby generating synthetic video composed of the second 5 primary video and the second auxiliary video.

12. The data processing method of claim 11, wherein the converting step includes:

a video converting step for converting the data 10 representing the first primary video into data representing the second primary video by changing the vertical scanning frequencies;

a subtitle converting step for converting the data representing the first auxiliary video into data representing 15 the second auxiliary video, identifying a picture of the first primary video to be presented synchronously with letters of the first auxiliary video, and associating letters of the second auxiliary video, corresponding to the letters of the first auxiliary video, with a picture of the second primary 20 video corresponding to the identified picture of the first

primary video; and

a synthesizing step for generating data representing the synthetic video by synthesizing together the second primary video data and the second auxiliary video data that have been  
5 associated with each other.

13. The data processing method of claim 11, wherein the converting step includes:

a synthesizing step for generating superposed video, in  
10 which the first primary video and the first auxiliary video are synchronized with each other in accordance with the timing information and superposed one upon the other; and

a video converting step for converting data representing the superposed video into data representing the synthetic  
15 video.

14. The data processing method of claim 11, wherein the converting step includes the step of converting the data representing the first primary video and the first auxiliary  
20 video and having a predetermined resolution into data

representing the synthetic video that has a resolution different from the predetermined resolution.

15. The data processing method of claim 14, wherein the  
5 converting step includes the step of converting the first primary video data and the first auxiliary video data of a film material into NTSC- or PAL-compliant synthetic video data.

10 16. The data processing method of claim 15, wherein the converting step includes the step of converting one frame of the first primary video and the first auxiliary video of the film material into at least two fields of the PAL-compliant synthetic video with the same field inserted at regular  
15 intervals a number of times during the conversion into the fields.

17. The data processing method of claim 11, wherein the data stream includes conversion permissibility information  
20 indicating whether or not the converting section may do

conversion, and

wherein the converting step includes the step of doing  
the conversion when the conversion permissibility information  
permits the converting step to do so.

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18. The data processing method of claim 11, wherein the  
data stream includes conversion designating information  
designating the type of conversion to do, and

wherein the converting step includes the step of doing  
10 the type of conversion that has been designated by the  
conversion designating information.

19. The data processing method of claim 11, further  
comprising the step of inputting conversion designating  
15 information designating the type of conversion to do,

wherein the converting step includes the step of doing  
the type of conversion that has been designated by the  
conversion designating information.

20 20. The data processing method of claim 19, wherein the

converting step includes the step of generating PAL-compliant synthetic video by performing either a conversion of presenting each picture a single time or a conversion of presenting a particular picture a number of times in accordance with the conversion designating information.